

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: October 28, 2000, 12:40:52 ; Search time 71.45 Seconds
(without alignments)
2097.822 Million cell updates/sec

Title: US-09-157-984-2
Perfect score: 399
Sequence: 1 aagccacactcttgcgca.....gcgcgaactatgagagcat 399

Scoring table:
IDENTITY-NUC
Gapop 10.0 , Gapext 1.0

Number of hits satisfying chosen parameters: 960044
Total number of hits satisfying chosen parameters: 960044

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

N_Geneseq_36:*

- 1: /cgnl_8/gcgdata/geneseq/geneseq/NA1980.DAT:*
- 2: /cgnl_8/gcgdata/geneseq/geneseq/NA1981.DAT:*
- 3: /cgnl_8/gcgdata/geneseq/geneseq/NA1982.DAT:*
- 4: /cgnl_8/gcgdata/geneseq/geneseq/NA1983.DAT:*
- 5: /cgnl_8/gcgdata/geneseq/geneseq/NA1984.DAT:*
- 6: /cgnl_8/gcgdata/geneseq/geneseq/NA1985.DAT:*
- 7: /cgnl_8/gcgdata/geneseq/geneseq/NA1986.DAT:*
- 8: /cgnl_8/gcgdata/geneseq/geneseq/NA1987.DAT:*
- 9: /cgnl_8/gcgdata/geneseq/geneseq/NA1988.DAT:*
- 10: /cgnl_8/gcgdata/geneseq/geneseq/NA1989.DAT:*
- 11: /cgnl_8/gcgdata/geneseq/geneseq/NA1990.DAT:*
- 12: /cgnl_8/gcgdata/geneseq/geneseq/NA1991.DAT:*
- 13: /cgnl_8/gcgdata/geneseq/geneseq/NA1992.DAT:*
- 14: /cgnl_8/gcgdata/geneseq/geneseq/NA1993.DAT:*
- 15: /cgnl_8/gcgdata/geneseq/geneseq/NA1994.DAT:*
- 16: /cgnl_8/gcgdata/geneseq/geneseq/NA1995.DAT:*
- 17: /cgnl_8/gcgdata/geneseq/geneseq/NA1996.DAT:*
- 18: /cgnl_8/gcgdata/geneseq/geneseq/NA1997.DAT:*
- 19: /cgnl_8/gcgdata/geneseq/geneseq/NA1998.DAT:*
- 20: /cgnl_8/gcgdata/geneseq/geneseq/NA1999.DAT:*
- 21: /cgnl_8/gcgdata/geneseq/geneseq/NA2000.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	129.2	32.4	1429	16	Neurotrophin-6 CDN
2	127.6	32.0	2273	16	Neurotrophin-6 gen
3	99.6	25.0	1176	19	Nerve growth facto
4	98	24.6	1164	5	Sequence of the hu
5	98	24.6	1164	5	Sequence of the hu
6	98	24.6	1164	14	Cloned mouse pre-p
7	91	22.8	972	14	Nerve growth facto
8	91	22.8	972	16	Human nerve growth
9	89.4	22.4	725	16	Human nerve growth
10	89.4	22.4	726	18	Human preproNGF en
11	89.4	22.4	790	12	NGF gene with pro-
12	89.4	22.4	972	12	Human NGF Smal-Apa

13	89.4	22.4	972	12	010620	Human nerve growth
14	89.4	22.4	972	12	013397	hNGF gene in pNHFP
15	89.4	22.4	1047	19	V42187	Nerve growth facto
16	89.4	22.4	1047	20	X34366	Human nerve growth
17	89.4	22.4	1164	14	054283	Human pre-pro nerv
18	89.4	22.4	1164	14	042571	Human NGF DNA. Ho
19	89.4	22.4	1164	19	V50465	Human beta-nerve g
20	89.4	22.4	5778	5	NA0033	Sequence of portio
21	88.4	22.2	373	5	NA0035	Sequence of EcorI/
22	87.4	21.9	389	16	T05438	Nerve growth facto
23	85.2	21.4	394	19	V05378	Nerve growth facto
24	84.6	21.2	388	12	012639	Human NGF HindIII-
25	84.6	21.2	672	21	X82999	Human preproNGF cDNA
26	82.6	20.7	364	10	N90273	Human nerve growth
27	81	20.3	354	7	N60816	Sequence encoding
28	81	20.3	354	10	N90577	Human nerve growth
29	79.4	19.9	792	12	011578	Human growth hormo
30	78	19.5	372	11	003473	Human beta nerve g
31	71.8	18.0	203	12	014805	C-terminal of hNGF
32	63.4	15.9	127	13	032203	NGF, salmon. Onco
33	60.4	15.1	368	12	013335	Encodes variant hu
34	57.8	14.5	283	12	014804	Beta lactamase sig
35	55.2	13.8	354	19	V19893	Mutant met-huNT-3
36	55.2	13.8	360	19	V19892	Mutant met-huNT-3
37	54.2	13.6	946	11	005912	Sequence encoding
38	54.2	13.6	1079	12	011146	Neurotrophin-3 gen
39	54.2	13.6	1134	14	042573	Rat NT-3 DNA. Rat
40	52.6	13.2	1284	12	011145	Neurotrophin-3 gen
41	50.6	12.7	127	13	032199	NGF, rat. Rattus
42	50.4	12.6	360	16	T05356	NGF-less NT-3 enco
43	50.4	12.6	363	13	032217	Human NT-3 encond
44	48	12.0	1302	14	032217	NT-4, Xenopus. Xe
45	48	12.0	1313	13	032218	NT-4, Xenopus. Xe

ALIGNMENTS

RESULT 1	
T05625	T05625 standard; cDNA; 1429 BP.
ID	
XX	
AC	T05625;
XX	
DT	29-FEB-1996 (first entry)
XX	
DE	Neurotrophin-6 CDNA.
XX	
KW	Neurotrophin-6; neurotrophic factor; Alzheimer disease;
KW	Parkinson disease; transgenic animal; swordfish; ss.
XX	
OS	Xiphophorus helleri.
XX	
FT	Key
FT	CDS
FT	Location/Qualifiers
FT	143..1003
FT	/*tag= a
FT	sig_peptide
FT	143..199
FT	/*tag= b
FT	mat_peptide
FT	572..1000
FT	/*tag= c
XX	
PN	W09526363-A1.
XX	
PD	05-OCT-1995.
XX	
PF	28-MAR-1995;
XX	
PR	95WO-EP01157.
XX	
PA	29-MAR-1994;
XX	
PI	94EP-0104971.
XX	
XX	(PLAC) MAX PLANCK GBS FOERDERUNG WISSENSCHAFTEN.
XX	Goeltz RG, Lottspeich F, Scharltl M, Thoenen H;


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Db      898 aggcgttcagacacagatgaggaagcagcgcgtcttgaggttcacccgatatagacacagcct 957
      ||||| || | | ||| ||| ||||| ||||| || ||| ||
Qy      365 gccgtgcgctccctcagccgcaa 386
      | ||| | | ||||| ||
Db      958 gtgtgtgtgtgtctcagcagga 979

RESULT 5
N40034 ID N40034 standard; DNA; 1164 BP.
XX AC N40034;
XX DT 25-JAN-1992 (first entry)
XX DE Sequence of human prepro-beta-nerve growth factor (NGF) gene.
XX KW Nerve damage; therapy; ss.
XX MN Homo sapiens.
FH Key Location/Qualifiers
FT sig_peptide 75..635
FT mat_peptide /*tag= a
FT /*tag= b
FT EP121338-A.
PD 10-OCT-1984.
XX PF 02-MAR-1984; 84EP-0301377.
XX PR 03-MAR-1983; 83US-0471962.
XX PA (GETH ) GENENTECH INC.
PI Gray AM, Ullrich A;
XX MPI; 1984-251909/41.
XX DR P-PSDB; P40039.
XX PT Human beta-nerve growth factor free from other proteins - obt'd.
XX PS by recombinant DNA techniques for treating nerve damage
XX PS
XX PS Example; Fig 6; 42pp; English.
XX
The inventors claim human beta-nerve growth factor (NGF) free from
other proteins of human origin. Also claimed are the DNA sequence
encoding human beta-NGF operably linked with a DNA sequence capable
of effecting its expression in a recombinant host cell; a replicable
expression vector contg. the DNA; and host cells transformed with
the vector. The plasmid claimed is plasmid ph-beta-NGF trp 1. Using
the plasmid, larger amounts of pure beta-NGF are obtainable than by
extrn. of natural materials, see e.g. EP--2139.
XX
SQ Sequence 1164 BP; 284 A; 327 C; 284 G; 269 T; 0 other;

Query Match 24.6%; Score 98; DB 5; Length 1164;
Best Local Similarity 58.1%; Pred. No. 2e-21; Indels 45; Gaps
Matches 222; Conservative 0; Mismatches 115;

Qy      5 ccaacgactcttcgacgcgcgagctactctgtgtgtgacagcgaagcgaactgggttg 64
      || | | ||||| | | ||||| ||||| ||||| |
Db      643 cccacccagctcttcacacatggggagttctcagtgctgacagtgccaagtgtgtgtgtg 702

Qy      65 gcaactcgccacacagccacagacttacggggcaatgaatcaccggtgtgcacatgttc 124
      | | |||| | ||||| || | ||||| || | ||
Db      703 ggagataagacccacagccacacagacatcaagggaagtgagtcagtgctgcgcgaagtga 762

Qy      125 gcatcaacaacgtgtgtgaaagcagatgttcttaagagaccacgctgcgtgtgtcgaaac 184

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Query Match	24.6%	Score 98	DB 14	Length 1164
Best Local Similarity	58.1%	Pred. NO. 2e-21		
Matches 222	Conservative 0	Mismatches 115	Indels 45	Gaps 1

3
2
1

JP06317587-A.

Disclosure; Page 17-18; 26pp; Japanese

CC Human NGF is useful as a reagent for study of the nervous system, and
CC for treatment of senile dementia. The DNA was derived from the human
CC gene or is synthesised chemically.
CC See also Q12639.
XX
SQ Sequence 972 BP; 212 A; 294 C; 248 G; 218 T; 0 other:

[illegible]

Db	Q10620	Q10620 standard	DNA	972 BP
XX	Q10620;			
XX	26-APR-1991	(first entry)		
XX	Human nerve growth factor gene.			
XX	NGF; senile dementia; ss.			
XX	Homo sapiens.			
XX	Key	location/Qualifiers		
XX	signal_peptide	198..251		
XX		/*tag= a		
XX	CDS	252..923		
XX		/*tag= b		
XX		/label= pro-NGF		
XX	mat_peptide	561..923		
XX		/*tag= c		
XX	EP414151-A.			
XX	27-FEB-1991.			
XX	17-AUG-1990;	90EP-0115815.		
XX	21-AUG-1989;	89GP-0212980.		
XX	20-DEC-1989;	89JP-0328198.		
XX	13-APR-1990;	90JP-0096252.		
XX				

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